> CR 75.0 DIGITIZER FOR COMPUTED RADIOGRAPHY

Maximizing productivity for the complete clinical application range

> CR 75.0 is a multi-user digitizer featuring a unique drop-and-go buffer that eliminates waiting times and maximizes productivity.

> CR 75.0 is a multi-application digitizer, benefiting from three different resolution modes.

Highest productivity

The cassette buffer eliminates waiting times and allows for a continuous workflow within the department. Zero-button operation with automated cassette handling makes CR 75.0 a highly productive and user-friendly system with a throughput of up to 115 plates an hour, depending on size and application.

No waiting

The CR 75.0 Digitizer requires no manual interaction and all the user has to do is to deposit the cassettes in the input buffer of up to 10 cassettes. The digitizer automatically takes cassettes from the input buffer and reads the demographic data from the memory on the cassette. It then scans the imaging plate, digitizes the image and returns the cassette to the output buffer for new exposures.

The combination of an input/output buffer and the simultaneous handling of two cassettes eliminates the difference between average and nominal throughput.

Full data

Standard resolution provides read-out at 6 pixels/mm yielding a minimum cassette waiting time.

High resolution is available at 10 pixels/mm. This high resolution read-out capability is available in all plate sizes.

For mammography applications, 20 pixels/mm resolution will be available for dedicated 18 x 24 cm and 24 x 30 cm mammography cassettes and plates. *(Not available for distribution in the U.S.)*

No waiting times for improved patient care

Input/output buffer for maximized productivity

For a broad range of applications

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Compact footprint

CR 75.0 occupies a very small floorspace and at the same time provides unhindered access to two users, one at the input and one at the output buffer, resulting in a smooth flow of operations. This concept makes CR 75.0 the ideal solution for centralized CR.

An economical way to go digital

CR cassettes are compatible with conventional X-ray equipment, allowing X-ray departments to go from analog to digital with minimal investments and workflow adaptations.

Cassette sizes

Accepted cassette sizes	Spatial resolution	Pixel matrix size
Standard resolution		
35 x 43 cm (14 x 17 in)	6 pixels / mm	2320 x 2826
35 x 35 cm (14 x 14 in)	6 pixels / mm	2320 x 2320
High resolution		
35 x 43 cm (14 x 17 in)	10 pixels / mm (option)	3480 x 4240
35 x 35 cm (14 x 14 in)	10 pixels / mm (option)	3480 x 3480
35 x 43 cm (automatic collimation to 21 x 43 cm)	10 pixels / mm	2020 x 4240
24 x 30 cm	10 pixels / mm	2320 x 2920
18 x 24 cm	10 pixels / mm	1720 x 2320
15 x 30 cm	10 pixels / mm	1420 x 2920
8 x 10 in	10 pixels / mm	1950 x 2460
10 x 12 in	10 pixels / mm	2460 x 2970
Mammography (not available for distribution in the U.S.)		
24 x 30 cm	20 pixels / mm	4760 x 5840
18 x 24 cm	20 pixels / mm	3560 x 4640

Safety

Region	Regulation	X-ray	Laser
Europe	EN 60601-1: 1990 + A1: 1993 + A2: 1995 EN 60601-1-2: 2001	Regulation: 1987	EN 60825 - 1:2001
USA	UL 2601 21CFR part 820: good manufacturing practice for medical devices	DHHS/FDA 21 CFR part 1002, subchapter B	DHHS/FDA 21 CFR parts 1040, 10 and 1040, 11
Canada	CSA22.2 No.601.1 No.601.1.2		

Technical specifications

General

Cassette buffer capacity and performance

10 cassettes of mixed sizes, both in input and output buffer

Throughput: up to 115 plates/h (depending on size and application)

LCD display

Machine status and error conditions

Greyscale resolution

Data acquisition 12 bits/pixel
Output to processor 12 bits/pixel

Dimensions and weight

(W x D x H):	84 x 115 x 142 cm (33 x 45 x 56 in)
At foot:	84 cm (33 in)
At buffer:	142 cm (56 in)
Weight:	Approx.: 320 kg (750.5 lbs)

Power

50/60 Hz single phase
240V +10%, max. fuse 16A
230V ±10%, max. fuse 16A
208V ±10%, max. fuse 15A (e.g. USA)
200V ±10%, max. fuse 15A (e.g. Japan)

Environmental conditions

Temperature:	20 - 30 °C (68 - 86 °F)
Humidity:	10 - 80% RH
Magnetic fields:	max. 12.60 µT
Rate of change of temperature:	0.5 °C/minute

Environmental effects

Noise level:	max. 65 dB (A)
Heat dissipation:	standby 350 W max. 2000 W

Safety

Approvals

TüV, UL, cUL, CE

Transport details

Temperature:	-25 to +55 °C (-4 to 131 °F) -25 °C for max. 72 hours +55 °C for max. 96 hours
Humidity:	5 - 95% RH

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